

FIGURE 1

09942024-082801

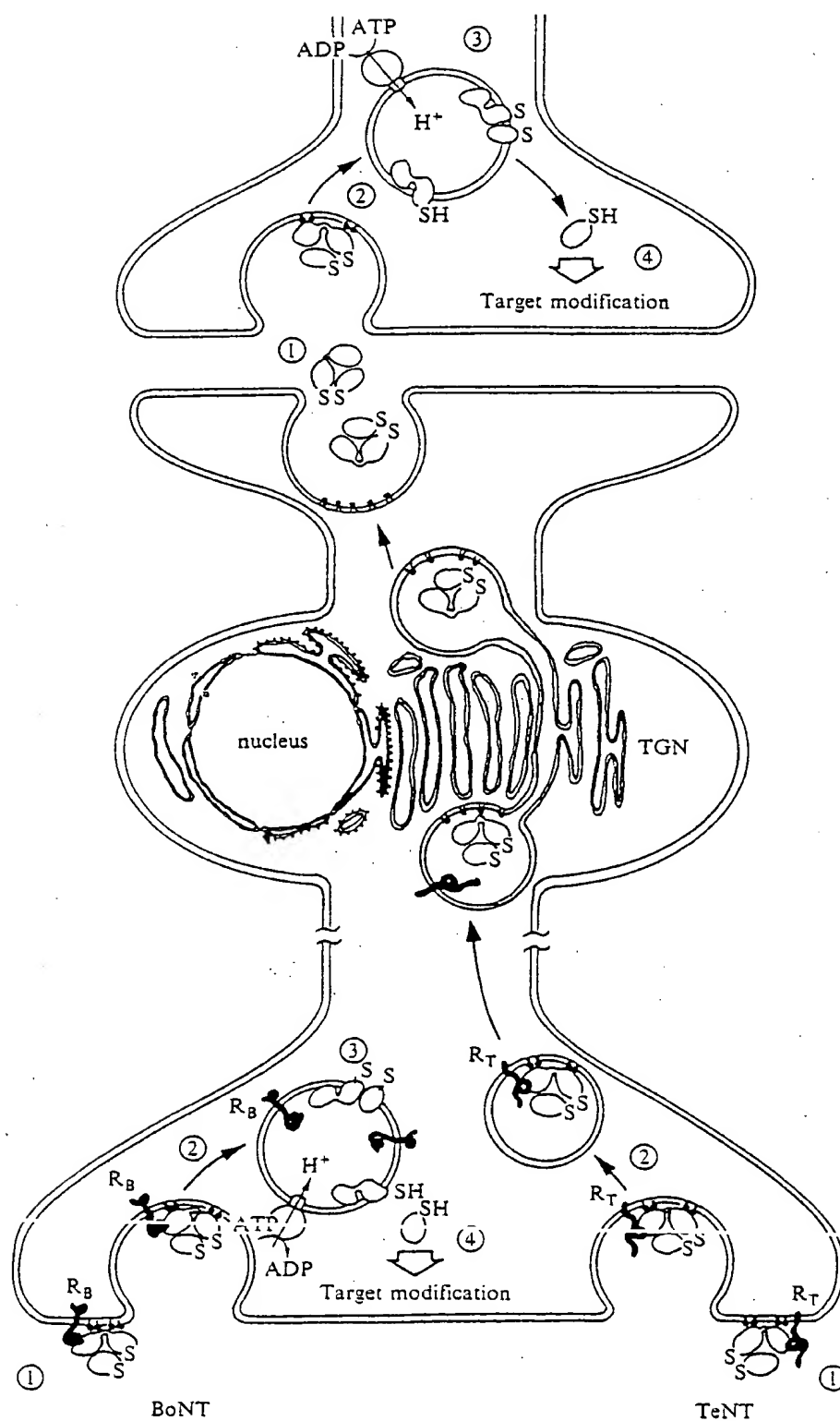


FIGURE 2

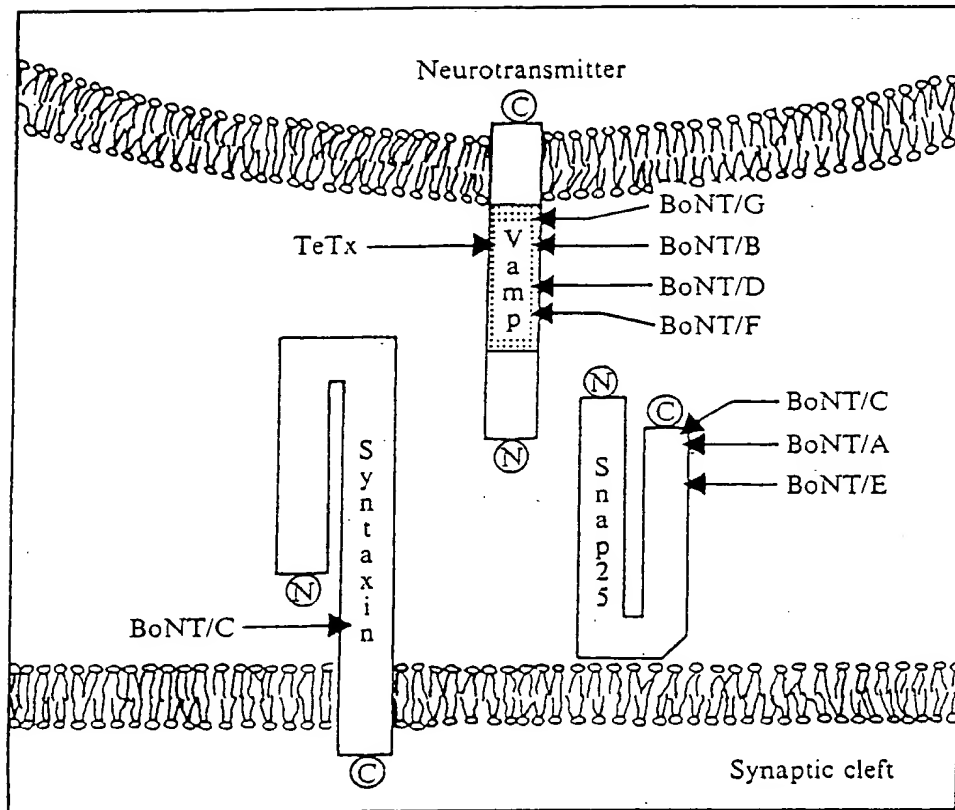
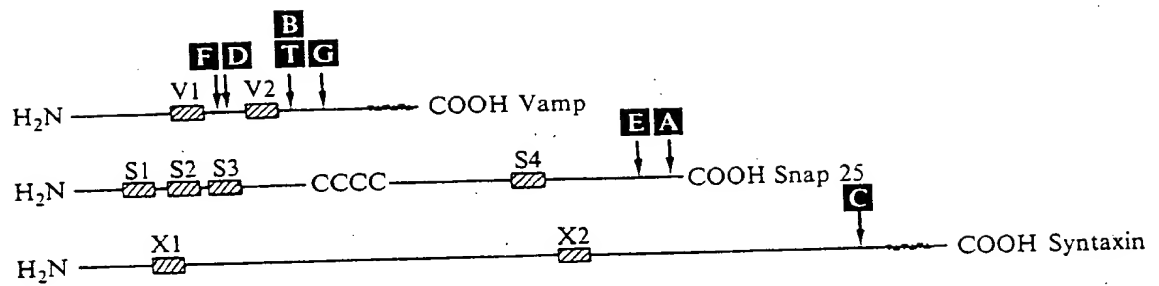


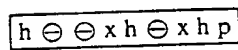
FIGURE 3

0942024-082801

A.



B.



C.

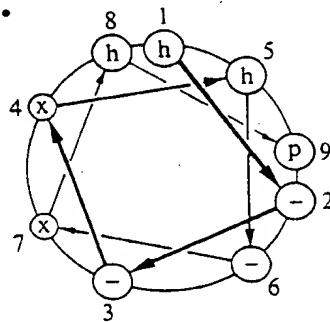


FIGURE 4

Inventors: Steward et al.  
Attorney Docket: P-AR 4803

1 75  
SNAP-25 Human (1) -----MADADMRNELEEMORRADQIADESLESTRRLQAVEESKADGIRTLVMDLQGEQLRMEEGMDQIN  
SNAP-25 Mouse (1) -----MADADMRNELEEMORRADQIADESLESTRRLQAVEESKADGIRTLVMDLQGEQLRMEEGMDQIN  
SNAP-25 Drosophila (1) MPADPSEVAPQVPKTELEELQINVAQVADDESLESTRRLAIEESKEAGIRTLVLDLQGEQLDRMEEGMDQIN  
SNAP-25 Goldfish (1) -----MADADMRNELIDQARADQIGDESLESTRRLQAVEESKADGIRTLVMDLQGEQLRMEEGMDQIN  
SNAP-25 Sea Urchin (1) -----MEDQNDMMNRSELEEIQMSNMOTDESLESTRRLQAVEESQDMGIKTLVMDLQGEQLDRMEEGMDQIN  
SNAP-25 Chicken (1) -----MADADMRNELEEMORRADQIADESLESTRRLQAVEESKADGIRTLVMDLQGEQLDRVEEGMNHIN

76 150  
SNAP-25 Human (69) KDMKEAEKNI EDLGRFCGLGVCPEN --- KKKSSDAYKKKAWGNNDGWAS - QPARVWDEREOMATSGGFIRRVIN  
SNAP-25 Mouse (69) KDMKEAEKNI EDLGRFCGLGVCPEN --- KKKSSDAYKKKAWGNNDGWAS - QPARVWDEREOMATSGGFIRRVIN  
SNAP-25 Drosophila (76) ADMREAEKNI SGMKCCGICVLPENKSPFREDG --- TKGNDDGKVVNN QPARVWDEREOMATSGGFIRRVIN  
SNAP-25 Goldfish (69) KDMKEAEKNI EDLGNLCGLCPEN --- KKKGG --- GQSWGNNDGWSS - QPARVWDEREOMATSGGFIRRVIN  
SNAP-25 Sea Urchin (71) TDMREAEKNI LGLEKCCGICVGPWKLGKGNPEKGDYKKTKMKNDDGKVNSHQPMRVEDDDGCGGNASMITRIN  
SNAP-25 Chicken (69) QDMKEAEKNI KDLGKCCGLFIQEN --- KKKSSDAYKKKAWGNNDGWAS - QPARVWDEREOMATSGGFIRRVIN

151 225  
SNAP-25 Human (140) DARENEMDENLEQVSGIIGNLRHVALDMGNEIDTQNRQIDRIMEKADSNKTRIDEAN --- ORATKMLGSG ---  
SNAP-25 Mouse (40) DARENEMDENLEQVSGIIGNLRHVALDMGNEIDTQNRQIDRIMEKADSNKTRIDEAN --- ORATKMLGSG ---  
SNAP-25 Drosophila (48) DAREDEMENQVNTMIIGNLRHVALDMGSELENDQNRQIDRINRKGESNEARUAVAN --- ORAHOLK ---  
SNAP-25 Goldfish (37) DARENEMDENLEQVSGIIGNLRHVALDMGNEIDTQNRQIDRIMADSNKTRIDEAN --- ORATKMLGSG ---  
SNAP-25 Sea Urchin (46) DAREDEMENITQVSSHIVGNLRHVALDMQSEIGAQNSQVGEITSKAESNEGRINSAD --- KRAKNIERNK ---  
SNAP-25 Chicken (140) DARENEMDENLEQVSGIIGNLRHVALDMGNEIDTQNRQIDRIMEKLIPIKPGLMKPTSVQQRCSAVVKCSKVHFL

226 260  
SNAP-25 Human (207) -----  
SNAP-25 Mouse (207) -----  
SNAP-25 Drosophila (213) -----  
SNAP-25 Goldfish (204) -----  
SNAP-25 Sea Urchin (213) -----  
SNAP-25 Chicken (215) LMLSQRAVPSCFYHGIYLLGLHTCTYQPHCKCCPV

FIGURE 5

[illegible]

**Inventors: Steward et al.**  
**Attorney Docket: P-AR 4803**

	VAMP-1	HUMAN	(1)	MSAPAQPPAEGTEGTAPG-CGPPPGPPPNLTISNRRLQQTQAQVDEEVVDITRWNVDKVLERDQKLSLDDRADALQA	75
	VAMP-2	HUMAN	(1)	MSATAATAPPAAAGCEGGPPAPPNLTISNRRLQQTQAQVDEEVVDITRWNVDKVLERDQKLSLDDRADALQA	
	VAMP-2	MOUSE	(1)	MSATAATVPDAAGCEGGPPAPPNLTISNRRLQQTQAQVDEEVVDITRWNVDKVLERDQKLSLDDRADALQA	
	VAMP	Bovine	(1)	MSATAATAPPAAAGCEGGPPAPPNLTISNRRLQQTQAQVDEEVVDITRWNVDKVLERDQKLSLDDRADALQA	
	VAMP-2	Frog	(1)	MSAPTAGPPAAPADCAEQGPP-NLTISNRRLQQTQAQVDEEVVDITRWNVDKVLERTIKLSLDDRADALQA	
	VAMP	Sea urchin	(1)	-----MAAPPPQPAPSINKRRLQQTQAQVDEEVVDITRWNVDKVLERDQKLSLDDRADALQQ	

	76		123
VAMP-1 HUMAN (75)	GASQPESSAAKLKRKYWKN	CKMMI	MEGLICATIIIVVVIIVTVEFT
VAMP-2 HUMAN (73)	GASQPESSAAKLKRKYWKN	CKMMI	ELGVICATIIITIIIVWFSS
VAMP-2 MOUSE (73)	GASQPESSAAKLKRKYWKN	CKMMI	ELGVICATIIITIIIVWFST
VAMP Bovine (73)	GASQPESSAAKLKRKYWKN	CKMMI	ELGVICATIIITIIIVWFSS
VAMP-2 Frog (71)	GASQPESSAAKLKRKYWKN	CKMMI	ELGVICATIIITIIIVWFST
VAMP Sea urchin (57)	GASQPEINAGKLKRKYWKN	CKMMI	ELATIIIVITIIIVVAIVQSQKK

## FIGURE 6

[illegible]

	76	150
Syntaxin 1A human	(73) <b>E</b> E <b>E</b> E <b>L</b> M <b>S</b> D <b>T</b> K <b>K</b> T <b>A</b> N <b>K</b> V <b>R</b> S <b>K</b> L <b>K</b> S <b>E</b> I <b>E</b> Q <b>E</b> E <b>E</b> G <b>L</b> N <b>R</b> S <b>S</b> <b>A</b> D <b>I</b> <b>R</b> I <b>R</b> K <b>T</b> Q <b>H</b> S <b>T</b> L <b>S</b> R <b>K</b> <b>F</b> V <b>E</b> V <b>M</b> S <b>E</b> <b>Y</b> N <b>A</b> <b>T</b> Q <b>S</b> D <b>Y</b> R <b>R</b> C <b>K</b> G	
Syntaxin 1B2 human	(72) <b>Q</b> E <b>E</b> D <b>L</b> T <b>A</b> D <b>T</b> K <b>K</b> T <b>A</b> N <b>K</b> V <b>R</b> S <b>K</b> L <b>K</b> A <b>E</b> I <b>E</b> Q <b>E</b> E <b>E</b> G <b>L</b> N <b>R</b> S <b>S</b> <b>A</b> D <b>I</b> <b>R</b> I <b>R</b> K <b>T</b> Q <b>H</b> S <b>T</b> L <b>S</b> R <b>K</b> <b>F</b> V <b>E</b> V <b>M</b> T <b>E</b> <b>Y</b> N <b>A</b> <b>T</b> Q <b>S</b> K <b>Y</b> R <b>D</b> R <b>C</b> K <b>D</b>	
Syntaxin 1A mouse	(73) <b>E</b> E <b>E</b> E <b>L</b> M <b>S</b> D <b>T</b> K <b>K</b> T <b>A</b> N <b>K</b> V <b>R</b> S <b>K</b> L <b>K</b> S <b>E</b> I <b>E</b> Q <b>E</b> E <b>E</b> G <b>L</b> N <b>R</b> S <b>S</b> <b>A</b> D <b>I</b> <b>R</b> I <b>R</b> K <b>T</b> Q <b>H</b> S <b>T</b> L <b>S</b> R <b>K</b> <b>F</b> V <b>E</b> V <b>M</b> S <b>E</b> <b>Y</b> N <b>A</b> <b>T</b> Q <b>S</b> D <b>Y</b> R <b>R</b> C <b>K</b> G	
Syntaxin 1a drosophila	(76) <b>Q</b> E <b>E</b> D <b>L</b> M <b>A</b> D <b>T</b> K <b>K</b> N <b>A</b> N <b>R</b> V <b>R</b> G <b>K</b> L <b>K</b> T <b>E</b> I <b>E</b> Q <b>E</b> E <b>E</b> Q <b>Q</b> N <b>K</b> S <b>S</b> <b>A</b> D <b>I</b> <b>R</b> I <b>R</b> K <b>T</b> Q <b>H</b> S <b>T</b> L <b>S</b> R <b>K</b> <b>F</b> V <b>E</b> V <b>M</b> T <b>E</b> <b>Y</b> N <b>A</b> <b>T</b> Q <b>S</b> D <b>Y</b> R <b>R</b> C <b>K</b> G	
Syntaxin A C. elegans	(75) <b>E</b> E <b>E</b> D <b>L</b> M <b>A</b> V <b>T</b> K <b>P</b> A <b>N</b> K <b>V</b> R <b>G</b> <b>K</b> L <b>K</b> L <b>E</b> I <b>A</b> D <b>H</b> D <b>E</b> Q <b>G</b> - <b>A</b> G <b>N</b> <b>A</b> D <b>I</b> <b>R</b> I <b>R</b> K <b>T</b> Q <b>H</b> S <b>T</b> L <b>S</b> R <b>R</b> <b>F</b> V <b>E</b> V <b>M</b> I <b>D</b> <b>Y</b> N <b>K</b> T <b>Q</b> D <b>Y</b> R <b>R</b> C <b>K</b> G	
Syntaxin Sea urchin.	(73) <b>D</b> E <b>E</b> E <b>L</b> M <b>S</b> D <b>T</b> K <b>K</b> T <b>A</b> N <b>K</b> V <b>R</b> A <b>K</b> L <b>K</b> M <b>V</b> E <b>S</b> I <b>E</b> Q <b>E</b> E <b>E</b> S <b>A</b> K <b>M</b> N <b>S</b> <b>A</b> D <b>V</b> <b>R</b> I <b>R</b> K <b>T</b> Q <b>H</b> S <b>T</b> L <b>S</b> R <b>K</b> <b>F</b> V <b>E</b> V <b>M</b> I <b>D</b> <b>Y</b> N <b>S</b> <b>T</b> Q <b>D</b> D <b>Y</b> R <b>R</b> C <b>K</b> G	

	151		225
Syntaxin 1A human	(148)	RIORQLEITIGRTITSEEEDMLESNGNPALFASGITMDSSISQKALSETETRHSIIIKLENSIRELHDMVMDMAML	
Syntaxin 1B2 human	(147)	RIORQLEITIGRTITNEEEDMLESCKLAFITDDIKMDSQMTKQALNETRHNELIKLETISIRELHDMVMDMAML	
Syntaxin 1A mouse	(148)	RIORQLEITIGRTITSEEEDMLESNGNPALFASGITMDSSISQKALSETETRHSIIIKLETISIRELHDMVMDMAML	
Syntaxin 1a drosophila	(151)	RIORQLEITIGRPINDELEKMLEEGNSSVFTQGITMETQQAKQITLADTEARHQDIMKLETISIRELHDMVMDMAML	
Syntaxin A C. elegans	(149)	RIORQLDIACKQVGQDELEMIESGNGVFTQGITDTQQAKQITLADTEARHNDIMKLESIRELHDMVMDMAML	
Syntaxin Sea urchin	(148)	RIORQLEITIGKSTDAELEDMLESNGNPALFISGITMDTQQAKQITLRDTEARHNDIKKESIRELHDMVMDMAML	

	226		293
Syntaxin 1A human	(223)	VESQGEMLDRLEYNVEHVDXVERAVS	DTKKAVKYQSKARRKKIMIIICCVILGIVIAS TVGGIFA--
Syntaxin 1B2 human	(222)	VESQGEMLDRLEYNVEHSNDYVERAVS	DTKKAVKYQSKARRKKIMIIICCVLVGVVLASSIGGTLGL-
Syntaxin 1A mouse	(223)	VESQGEMLDRLEYNVEHVDXVERAVS	DTKKAVKYQSKARRKKIMIIICCVILGII IASTIGGIFG--
Syntaxin 1a drosophila	(226)	VESQGEMLDRLEYNVEHAMDYVQTATQ	DTKKALKYQSKARRKKIMIIICGLTVLGLLAASVSSYFM--
Syntaxin A C. elegans	(224)	VESQGEMLDRLEYNVEHAKFVDRVA	DTKKAVQYQSKARRKKICILVVTGMIITIGHIIFILFYAKVL
Syntaxin Sea urchin	(223)	VESQGEMLDRLEYNVEQSDYVYETAKND	DTKKAVKYQSKARRKKFYIATCCCVALGILVLIIVLAIIVLA--

**FIGURE 7**